S-shape Body Contouring Workstation - Official Clinical Overview & Technical Datasheet

S-SHAPE BODY CONTOURING WORKSTATION: OFFICIAL CLINICAL OVERVIEW & TECHNICAL DATASHEET

EXECUTIVE SUMMARY

The S-shape Body Contouring Workstation represents a paradigm shift in non-invasive adipose tissue management, integrating multi-wavelength diode laser technology with an advanced, ergonomic chassis engineered for high-throughput clinical environments. As a premium OEM solution, this system is architected to deliver selective photothermolysis with unprecedented epidermal protection, facilitating consistent, reproducible clinical outcomes across a diverse patient demographic. This document serves as the definitive technical reference, detailing the system's clinical architecture, performance specifications, and operational protocols for medical aesthetic practitioners.

CLINICAL ARCHITECTURE & DESIGN

The workstation's foundation rests upon a proprietary S-shape dynamic contouring platform, designed to maximize treatment efficacy while minimizing practitioner fatigue. The internal topology features a high-density diode laser array, capable of emitting synergistic wavelengths optimized for chromophore absorption in adipocytes and dermal tissues. The system's advanced thermal dissipation architecture ensures stable energy output even during extended treatment sessions, while a closed-loop fluidic cooling circuit maintains optimal operating temperatures for both the laser engine and the handpiece interface. The intuitive, high-resolution touchscreen interface provides real-time feedback and parameter adjustment, allowing for precise customization of treatment protocols.

KEY INDICATIONS & CAPABILITIES

The S-shape Workstation is clinically indicated for a broad spectrum of aesthetic applications, including non-invasive fat reduction, skin tightening, and cellulite improvement. Its versatile handpiece design supports multiple spot sizes, enabling tailored treatment plans for various body areas, from delicate submental regions to larger abdominal and flanks. The system's adaptive fluence management software automatically adjusts energy delivery based on real-time tissue impedance feedback, ensuring safe and effective energy penetration. Furthermore, the integrated painless epidermal cooling engine, utilizing sapphire contact cooling, preserves the skin surface, enhancing patient comfort and allowing for higher treatment fluences without compromising safety.

Parameter	**Specification**
Laser Type / Wavelength	755nm + 808nm + 1064nm Diode Laser
Spot Size	12mm x 12mm (Standard) / 15mm x 15mm (Large)
Cooling System	TEC + Sapphire Contact Cooling + Integrated Water Circulation + Forced Air

Maximum Output Power	Up to 500W (Combined)
Pulse Width	10ms - 400ms (Adjustable)
Fluence Range	10 J/cm² - 100 J/cm²
Repetition Rate	1 Hz - 10 Hz
Display	15-inch High-Resolution Capacitive Touchscreen
User Interface	Intuitive GUI with Smart Presets & Real-time Feedback
Electrical Requirements	100-240VAC, 50/60Hz, 15A
Dimensions (W x D x H)	45cm x 55cm x 120cm
Weight	Approx. 65 kg
Safety Certifications	CE (MDD 93/42/EEC), FDA 510(k) Cleared, IEC 60601-1

CLINICAL PROTOCOLS

Standard treatment protocols are structured around a series of sequential passes, with parameters adjusted according to the specific indication and skin phototype. A typical fat reduction session involves a 30-minute treatment window, during which the handpiece is moved in a slow, overlapping fashion across the target area. Post-treatment, patients may experience mild erythema,

which typically resolves within a few hours. A recommended treatment schedule consists of 6-8 sessions, spaced 1-2 weeks apart, to achieve optimal aesthetic outcomes. Follow-up evaluations are scheduled at 3 and 6 months post-treatment to assess long-term efficacy.